

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EarthTech
A tyco International Ltd. Company

F.A.P. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
786	109 BR	La Salle	351	216
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 16
89 SHEETS

Contract # 66607

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
⊙ Pier 8	87+32.00	5.63	520.12	520.12
⊙ Brg. Pier 8-S	87+32.84	5.63	520.10	520.10
9A	87+42.84	5.63	519.88	519.92
9B	87+52.84	5.63	519.67	519.74
9C	87+62.84	5.63	519.47	519.55
9D	87+72.84	5.63	519.27	519.34
9E	87+82.84	5.63	519.07	519.12
9F	87+92.84	5.63	518.87	518.89
9G	88+02.84	5.63	518.67	518.67
⊙ Pier 9	88+09.75	5.63	518.53	518.53
10A	88+19.75	5.63	518.33	518.36
10B	88+29.75	5.63	518.13	518.20
10C	88+39.75	5.63	517.93	518.05
10D	88+49.75	5.63	517.73	517.88
10E	88+59.75	5.63	517.53	517.69
10F	88+69.75	5.63	517.33	517.47
10G	88+79.75	5.63	517.13	517.23
⊙ Brg. S. Abut.	88+94.42	5.63	516.84	516.84
Bk. S. Abut.	88+97.42	5.63	516.78	516.78

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
⊙ Pier 8	87+32.00	12.04	520.02	520.02
⊙ Brg. Pier 8-S	87+32.84	12.04	520.00	520.00
9A	87+42.84	12.04	519.78	519.82
9B	87+52.84	12.04	519.57	519.64
9C	87+62.84	12.04	519.37	519.45
9D	87+72.84	12.04	519.17	519.24
9E	87+82.84	12.04	518.97	519.02
9F	87+92.84	12.04	518.77	518.79
9G	88+02.84	12.04	518.57	518.57
⊙ Pier 9	88+09.75	12.04	518.43	518.43
10A	88+19.75	12.04	518.23	518.26
10B	88+29.75	12.04	518.03	518.10
10C	88+39.75	12.04	517.83	517.95
10D	88+49.75	12.04	517.63	517.78
10E	88+59.75	12.04	517.43	517.59
10F	88+69.75	12.04	517.23	517.37
10G	88+79.75	12.04	517.03	517.12
⊙ Brg. S. Abut.	88+94.42	12.04	516.74	516.74
Bk. S. Abut.	88+97.42	12.04	516.68	516.68

BEAM 6

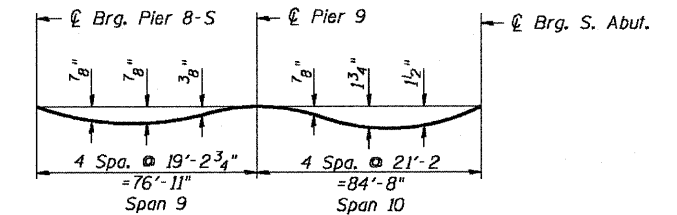
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
⊙ Pier 8	87+32.00	18.46	519.89	519.89
⊙ Brg. Pier 8-S	87+32.84	18.46	519.87	519.87
9A	87+42.84	18.46	519.65	519.69
9B	87+52.84	18.46	519.44	519.51
9C	87+62.84	18.46	519.23	519.31
9D	87+72.84	18.46	519.03	519.11
9E	87+82.84	18.46	518.83	518.89
9F	87+92.84	18.46	518.63	518.66
9G	88+02.84	18.46	518.43	518.43
⊙ Pier 9	88+09.75	18.46	518.30	518.30
10A	88+19.75	18.46	518.10	518.12
10B	88+29.75	18.46	517.90	517.97
10C	88+39.75	18.46	517.70	517.81
10D	88+49.75	18.46	517.50	517.64
10E	88+59.75	18.46	517.30	517.45
10F	88+69.75	18.46	517.10	517.23
10G	88+79.75	18.46	516.90	516.99
⊙ Brg. S. Abut.	88+94.42	18.46	516.60	516.60
Bk. S. Abut.	88+97.42	18.46	516.54	516.54

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
⊙ Pier 8	87+32.00	24.88	519.75	519.75
⊙ Brg. Pier 8-S	87+32.84	24.88	519.73	519.73
9A	87+42.84	24.88	519.51	519.55
9B	87+52.84	24.88	519.30	519.37
9C	87+62.84	24.88	519.10	519.18
9D	87+72.84	24.88	518.90	518.97
9E	87+82.84	24.88	518.70	518.75
9F	87+92.84	24.88	518.50	518.52
9G	88+02.84	24.88	518.30	518.30
⊙ Pier 9	88+09.75	24.88	518.16	518.16
10A	88+19.75	24.88	517.96	517.99
10B	88+29.75	24.88	517.76	517.83
10C	88+39.75	24.88	517.56	517.68
10D	88+49.75	24.88	517.36	517.51
10E	88+59.75	24.88	517.16	517.32
10F	88+69.75	24.88	516.96	517.10
10G	88+79.75	24.88	516.76	516.86
⊙ Brg. S. Abut.	88+94.42	24.88	516.47	516.47
Bk. S. Abut.	88+97.42	24.88	516.41	516.41

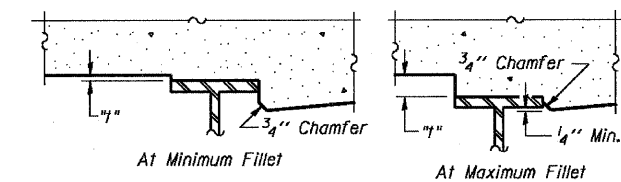
BEAM 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
⊙ Pier 8	87+32.00	31.29	519.62	519.62
⊙ Brg. Pier 8-S	87+32.84	31.29	519.60	519.60
9A	87+42.84	31.29	519.38	519.42
9B	87+52.84	31.29	519.17	519.24
9C	87+62.84	31.29	518.97	519.05
9D	87+72.84	31.29	518.77	518.84
9E	87+82.84	31.29	518.57	518.62
9F	87+92.84	31.29	518.37	518.39
9G	88+02.84	31.29	518.17	518.17
⊙ Pier 9	88+09.75	31.29	518.03	518.03
10A	88+19.75	31.29	517.83	517.86
10B	88+29.75	31.29	517.63	517.71
10C	88+39.75	31.29	517.43	517.55
10D	88+49.75	31.29	517.23	517.39
10E	88+59.75	31.29	517.03	517.19
10F	88+69.75	31.29	516.83	516.97
10G	88+79.75	31.29	516.63	516.73
⊙ Brg. S. Abut.	88+94.42	31.29	516.34	516.34
Bk. S. Abut.	88+97.42	31.29	516.28	516.28



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown above.



To determine "h": After all structural steel has been erected, elevations of the top flanges of the girders shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown above, minus slab thickness, equals the fillet heights "h" above top flange of girders.

FILLET HEIGHTS

TOP OF SLAB ELEVATIONS
UNIT 4 (2 OF 2)
IL. 170 F.A.P. 786 OVER
ILLINOIS RIVER AT SENECA
PUBLIC WATERS
LA SALLE COUNTY, SECTION 109 BR
STATION 79+04.42
STRUCTURE NO. 050-0246

DESIGNED - DEV
CHECKED - RJC
DRAWN - JHR
CHECKED - RJC